

MEMORANDUM

DATE: January 20, 2006

TO: Boiler and Pressure Vessel Program

FROM: Rick Merkle, Safety and Buildings,
Integrated Services, Section Chief

SUBJECT: Mechanical Refrigeration Relief Discharge Piping Directive

All mechanical refrigeration safety relief valve piping shall be of non-combustible material and shall be compatible with the refrigerant used. Plastic pipe shall not be used.

ASHRAE 9. DESIGN AND CONSTRUCTION OF EQUIPMENT AND SYSTEMS

ASHRAE 9.1 Materials

ASHRAE 9.1.1 Materials used in the construction and installation of refrigerating systems shall be suitable for conveying the refrigerant used. Materials shall not be used that will deteriorate because of the refrigerant, the lubricant or their combination in the presence of air or moisture to a degree that poses a safety hazard.

IIAR 5.14 Pressure-Relief Devices. This section applies to pressure-relief devices installed on ammonia closed-circuit mechanical refrigerating systems containing pressure vessels for the purpose of safely relieving excess pressure due to fire or other abnormal conditions.

IIAR 5.14.1 Every ammonia refrigerating system shall be protected by a pressure-relief device in accordance with the general requirements of section 9.4 of ASHRAE 15, and in addition shall comply with the specific requirements set forth in this standard.

Cc Randy Baldwin, Bureau Director
Joe Hertel, Program Manager

Directive 2006-001